

05.11.10

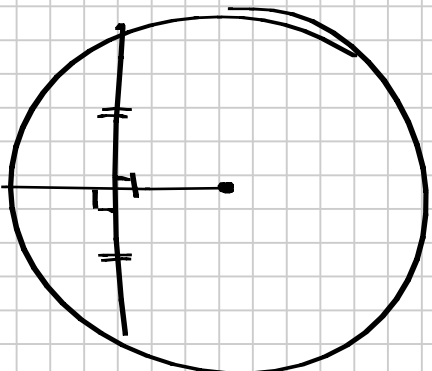
Note Title

## Circle Theorems

05/11/2010

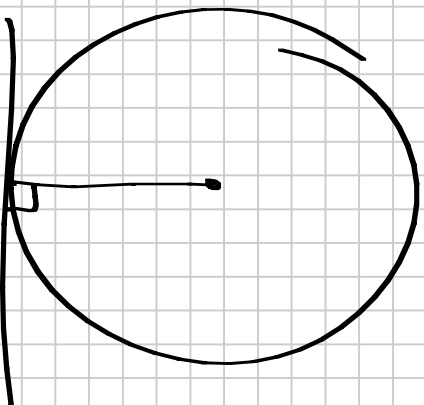
- ⑩ WALT take notes from an academic textbook.
- ⑤ Talk about how we approached this task in the cover lesson.
- ⑩ WILF is for you to find, copy, understand, learn and use the eight circle theorems.
- ⑩ Use the chapter summary to take notes first.  
Add diagrams. They're easier to remember.

①



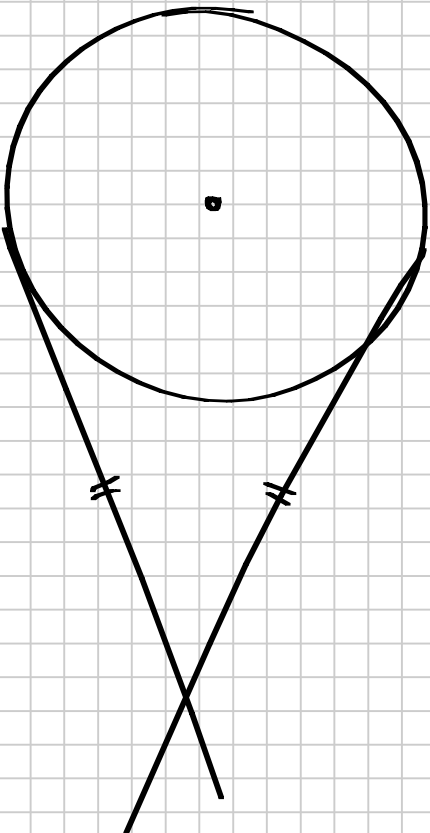
The perpendicular from the centre of a circle to a chord bisects the chord.

②



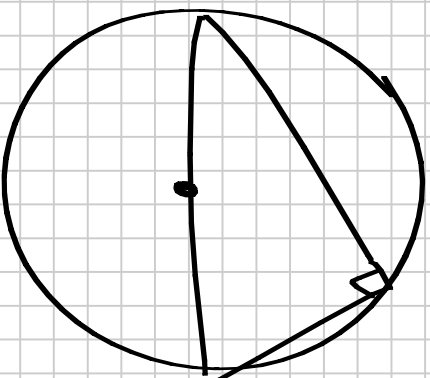
The angle between a tangent and its radius is  $90^\circ$ .

3



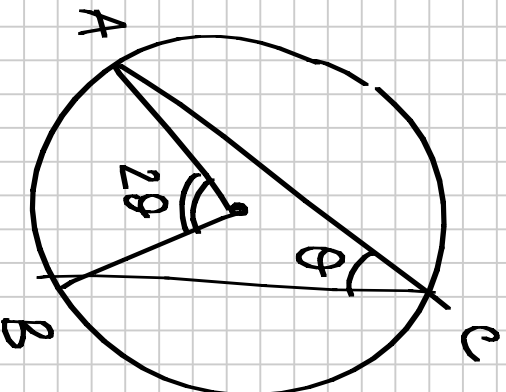
The lengths of two tangents to a point are equal.

4



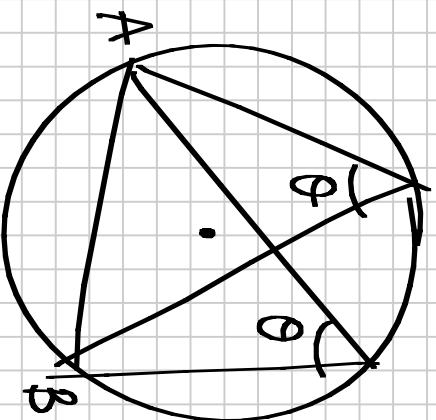
The angle in a semicircle is always a right angle.

5



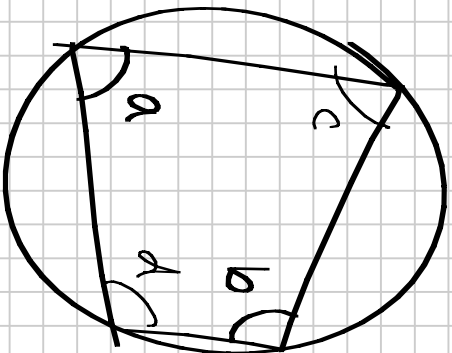
The angle at the centre  
is twice the angle at  
the circumference.

6



Angles in the same  
segment are equal.

⑦ + ⑧



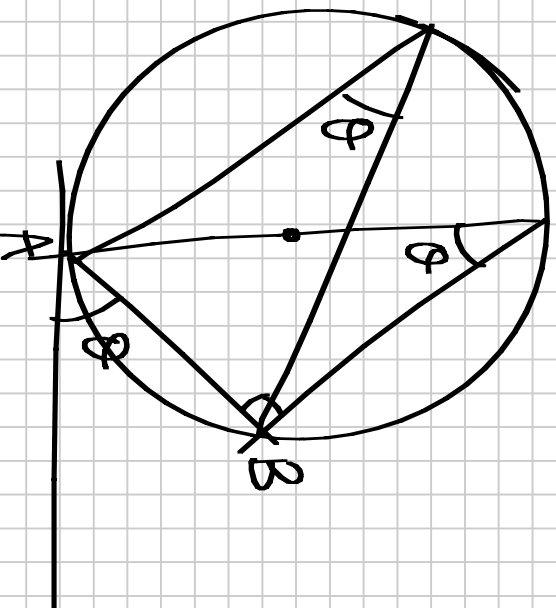
$$a + b = 180$$

and

$$\text{So is } c + d = 180^\circ$$

opposite angles in a cyclic quadrilateral ~~are supplementary~~ add up to  $180^\circ$

~~⑧~~ ⑨



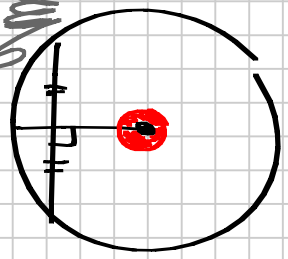
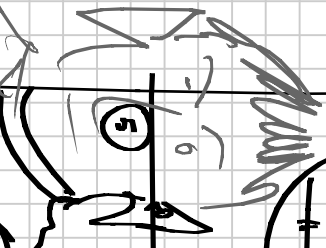


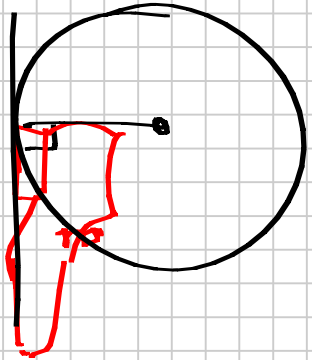
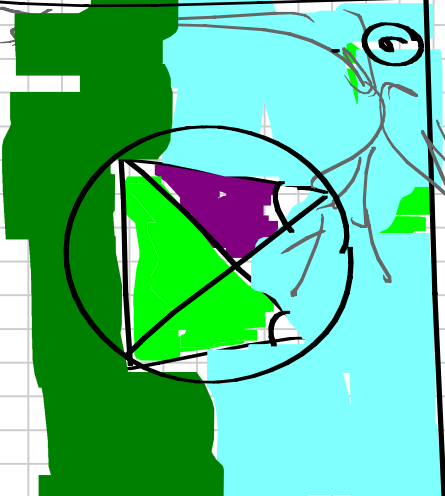
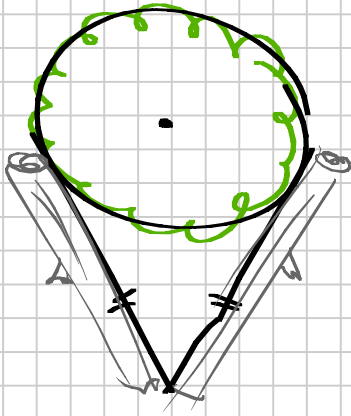
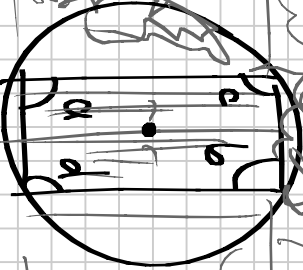
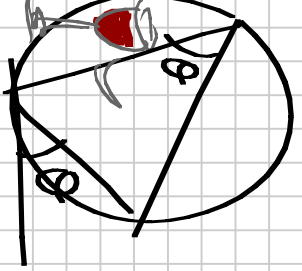
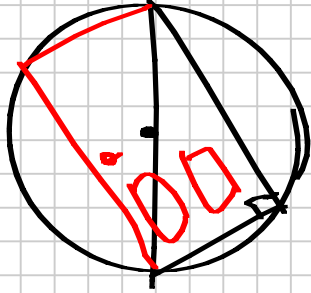
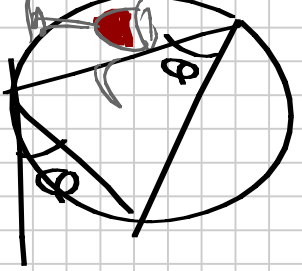
The angle between a tangent and its chord equals the angle in the alternate segment.

9

<p>①</p>	<p>②</p>	<p>③</p>	<p>④</p>
<p>⑤</p>	<p>⑥</p>	<p>⑦ <math>a + b = 180^\circ</math></p>	<p>⑧</p>

⑧  $c + d = 180^\circ$

9

<p>①</p>  <p>⑤</p>  <p>②</p>  <p>③</p> 	<p>②</p> 	<p>⑥</p> 	<p>③</p> 
<p>⑦</p>  <p><math>a + b = 180^\circ</math></p> <p>⑧</p>  <p><math>c + d = 180^\circ</math></p>	<p>④</p> 	<p>⑥</p> 	

①

one

unq

